Here Is the "Skiff" Body, the Latest

PROSPERITY SURE TO FOLLOW WAR

Studebaker European Manager Tells His View of the Situation.

AMERICAN GOODS GAINING

wave of prosperity, both in Eu-in America, is bound to follow t European war is the belief of Willis, who for the past two f years has been in charge of automobile distribution on the

is concluded within eighteen general governmental condi-icountry are not materially sel positive that France, Ger-a and England will all experi-al such as occurred following Prussian war and lasted until ars ago, when the present war agan to gather," says Willis, wealth and prosperity of Euro-

cularly Germans, French and is in their people and not in resources. Those people are strive long with great per-patience and achieve whator need, and as soon as to recoup their lost fortunes and intelligence, that bry to repeat itself.

s of life, the male population ent to till the soil and take regular channels of industry

to America. The war has comexhausted the supply of horses. and many kinds of manufactured Upon resumption of peace there an immediate demand for needed terial to assist in rebuilding the comree and industry of Europe. The scarc-of labor will cause high prices in all lasses of manufactured goods-so high fact that I do not believe Europe can mpete with America in such commodities compete with America in such commodities as motor cars, wagons, farm machinery and steel products for many years to come, even if any of them maintain a high tariff. America, with her scientific production methods, her enormous factories, and the advantage gained by having a large market during the period of supply much of the materials needed by Europe in the reconstruction which is sound to follow the present war.

"Before the war, the equipment it needed.
"So much for the past. With motor trucks at a point where they give the most economical service of any delivery system for any business and with our country's supply of horses rapidly being swallowed up by the war abroad, industry is to be motorized to a greater extent than ever. The country is buying trucks, there is no question about that, and it will continue to buy them in greater quantities than ever. That is the best indication of prosperity I know. A motor truck is a business investment and no man is going to make it unless he can seed the products for many years to come, even if any be had a seven passenger for any business at this digures may be had a seven passenger for any business and with our country's supply of horses rapidly being swallowed up by the war abroad, industry is to be motorized to a greater extent that the latest Delco apparatus, the remainder of the equipment being a one man top. Stewart speedometer, power tire pump, impection lamp, demountable rims with a spard rim, windshield, jack, tools, &c.

The motor of the new eight cylinder is naturally the interesting feature of the car. This is a Northway made engine, with cylinders 3½ by 4½, set in V fashion. It differs from other eights in trucks at a point where they give the most economical service of any delivery system for any business and with our country is supply being the production of any business and with our country is supply being the car. The car is electrically lighted and started by the latest Delco apparatus, the remainder of the equipment lit needed.

of the car, in his three passenger roadster

never been able to compete with America

in price—and this price difference will be even greater after the war than before, because of the scarcity of labor. The

and equipment are more practical and

NEW MACK WORM DRIVE.

than European makes.

One Ford Car Every 49 Seconds

THE "car a minute" production of the Ford factory, the source of much curiosity and general discussion, is not quite an accurate statement. It is a Ford every 49 seconds, to be exact. That means that a Ford is assembled-put together completely-every 49 sec-

Dependent upon the completion of the 300,000 car schedule on August 1, 1915, there will be 1,000,000 Ford cars in operation. There are nearly 6,000 Ford dealers. And in the hands of these Ford dealers is kept a stock of Ford parts aggregating about \$12,-

HOW THE FEDERAL GROWS.

Truck Company Building 1.500 Machines, Says Pulcher.

From an output of fifty trucks five Latest Model Is Being Shown ears ago to a production of 1,500 for 1915 is the story of the progress of the Federal Motor Truck Company of Detroit. "We started five years ago with two principal things in mind," says Martin L. Pulcher, general manager. "One was to choose the truck capacity that fitted the IS IN "TRIPLE ALLIANCE" needs of the most people and the other was to build the truck of standard parts. "These ideas, ideals if you wish to cal them such, we have held to closely. The result is that to-day we are the largest manufacturers of ton and a half trucks motor cars, is the eight cylinder, which

"That the one and a half ton truck is the capacity that fills the greatest need to-day is evident from the large number of businesses that have become Federalized —grocera, painting contractors, brewers, bakers, manufacturers—in fact almost every industry has found the truck of this size just the equipment it needed. "So much for the past. With motor trucks at a point where they give the system for any service of any system for any system for any service of any system for any syste

Owen in His New Magnetic Car

COLE BRINGS OUT VANADIUM STEEL'S QUALITY.

It Plays Important Part in Making AN EIGHT CYLINDER

of Mitchell Models, Says Houpt. "The average test of plain carbon steel s 80,000 pounds, of chrome nickel steel 110,000 and of vanadium steel 135,000 pounds to the square inch." In quoting these figures Harry S. Houpt, the Mitchell distributer, wishes to draw attention to the fact that vanadium steel will resist a weight or strain of 135,000 pounds to the square inch befort it will part, whereas chrome nickel steel will part at 110,000 pounds and plain carbon steel at 80,000. Vanadium steel is a light metal and plays an important part in the 1915 Mitchell light fours and sixes. Its Mberal use is an important factor in the accomplish-The latest model of the Cole Motor ent of light weight without endangering the safety of the cars. Car Company, which is designed to com-

plete the Triple Alliance of standardized The front axle spindles and the steer

HAVE SIXTEEN ENTRIES

Prize Affairs to Be Run in February Drawing Well.

To date no less than sixteen cars are minated for the Vanderbilt Cup raca, chich will be run on Washington's Birth lay, and a like number of entrants are participate in the Grand Prize contest, which is to be run on February 27, both

nmittee, received last week the entries t two Chevrolet racers. One of the cars to be driven by Jack Le Cain, who n the East last year. It has already been announced that Barney Oldfield, Ralph De Anderson, Eddie Pullen, Will Carlson and a number of other racing stars are to be en in competition for the big prizes in

cup a cash prize of \$8,000 is offered to the first five drivers to place in the

"One year's experience convinced us of one directly overhead.

Other specifications of the new Cole include cone clutch, left drive, centre control, three speed gear set, shaft drive to a floating rear axle with drive through discarded the magneto for all time.

control, three speed gear to a floating rear axle with drive through the springs, three-quarter elliptic rear springs, 126 inch wheelbase and 35 by 4 1/2 tires all around.

Severer Tests for Ohio Chauffeurs.
Ohio chauffeurs now must meet harder coming direct from the powerful storage battery. At speed the generator furnishes battery. At speed the generator furnishes as perfectly timed as the magnitude of the ma

cars here. This body, by Labourdette, is on a 50 horse-power, 6 cylinder Renault chassis.

And This Will Mean a Shortage in the Supply, Says De Lisser.

1915 DEMAND WILL

EMBARGO ONE BIG FACTOR

BE 7,500,000 TIRES

By HORACE DE LISSER, Ajax-Grieb Rubber Company.

year ago. New and used cars, there are cars.

altogether about 1500 000 automobiles Since the show closed. Silver says, in the country's car census. This means he has had hardly enough men to wait a production of 7,500,000 automobile tires on the people who come to his showroom for the usual need. It is safe to say that and his staff is probably the biggest in

Says Motorist Is Long-Suffering

HE average American motorist is a pretty patient and longsuffering individual. He pays from \$5 to \$50 a year for the privilege of having saved from \$400 to \$5,000 to purchase an automobile, a vehicle that is now looked upon almost as a necessity in the pursuit of business as well as pleasure.

What is the purpose of this tax? Ostensibly it is for road construction and maintenance, but as yet the motorist is by no means the only user of our State highways. Light, horse drawn buggies, as well as heavy trucks, are still used, and why their owners should profit by the use of excellent highways at the expense of the motorist and should not be called upon to expend one penny for a vehicle tax is a question that no fair minded man can answer .- Ohio Motorist.

MOTOR BUSINESS HOLDS UP.

Sales of Cars Continue in Good Measure, Silver Reports.

If business men in other lines outside of the automobile still retain any fear that there is a period of considerable depression ahead it would be wise for them to take a day off and visit a few of the to take a dry off and visit a few of the big establishments on Broadway where motor cars are sold. The way in which the sale of motor cars has stood up since the world war began is nothing short of marvellous, and it is a matter of fact that in some quarters sales actually took on a spurt upon the opening of hostilities.

The front axle spindles and the steering arm are made of vanadium without the size of the parts being reduced. The transmission gears and the axle and the drive shafts, through which the strain of the driving force is transmitted, are likewise made of this metal.

Careful attention to the material that goes into the Mitchell enabled one of the 1915 light four stock models only a short time ago to run 7,500 miles in thirty days with the bonnet sealed—250 miles a day through twenty-three different States over every kind of road.

CUP RACES ON COAST

Conditions all point to a shortage in automobile tires for the coming season. There are at least two reasons for this. One is that pending the settlement of the question of raising the embargo on rubble of the driving force is transmitted, are likewise made of this metal.

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CUP RACES ON COAST

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Come the world war began is nothing short of the marvellous, and it is a matter of fact that in some questers sales actually took on a spurt upon the opening of the distributing company which handled of the Periods and Overland lines here, says that people purchasing a luxury such as the automobile must have a pretty goo

the supply will be the better part of threequarters of a million tires short of what
is actually needed.

Both Vanderbilt and Grand

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BLACK ON YELLOW IS BEST AUTO TAG

Combination Is Most Legible, With White on Green Next Says Hugo.

WHAT VARIOUS STATES USE

By FRANCIS M. HUGO,

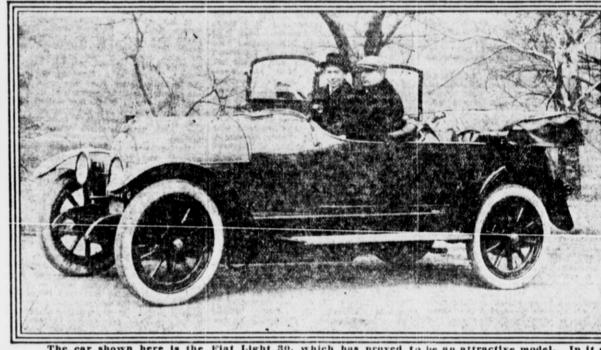
Secretary of State. The problem of legibility of number plates which are being issued during the present month to motor car owners it nearly all of the States is one that has periodically agitated the license officials for some time past. Recently experiments were conducted to determine the most conspicuous color combination for both plate and number, which the laws in most Commonwealths require to be distinctly different each year and of marked contrast at all times.

The results of these tests have demonstrated that the most legible color scheme to be adopted on number plates is black upon a yellow background, with white upon green as next choice. For the current year the former has been selected in New York and Oregon, Connecticut preferring yellow numerals upon a black background, but reversing this for commercial cars. Similar combinations were have been issued bearing black figures upon a canary yellow surface.

The license officials in three States have chosen the latter combination, New Hampshire adopting green figures on white, Indiana selecting green on pink white, Indiana selecting white fig-while New Jersey has blended white figures on a dark green background. In North Dakota black numbers appear on turquoise green. Ohio and Rhode Island have decided upon white background with black letters and figures, Wisconsin and Wyoming selecting the reverse—white on

lack background. Blue still remains a popular color, being used in four States, Kansas, Michigan, Maryland and Massachusetts, each select-ing white upon a blue background, white a turquoise blue background with white numerals is the choice of Pennsylvania In Kentucky and Idaho the plates bear red numerals embossed upon white, the exact opposite being chosen in New Mex-

Fiat Factory Man Tours on Sales Trip



Club of America. In addition to the gold E. H. Parker, driving, and H. T. Clinton, sales manager of the Fiat factory, on a demonstration trip made recently to agencies in the South and West.

With the lifting of the embargo, how-ever, the period of watchful waiting will cease and manufacturers will at least do their best to catch up to the demand.

ble amount of horse-power in opera-But we were determined not to act ally, he year's experience convinced us to be considered to the constant of the constant

the pure grain alcohol, and is cheaper.

ing touring season. It is easy to see therefore that owing to the setback received on account of the embargo production cannot reasonably come. IS SHOWING INCREASES

> Such Is Report Made by Factory Manager Reviewing Situation Made by the Embargo.

By P. W. LITCHFIELD, Factory Manager, Goodyear Tire and Rubber Company,

The rubber embargo by Great Britain, after being in force for nearly two months, has been raised on all concerns cent. alcohol and 60 per cent. water it will ber to the enemies of Great Britain. The 50 per cent. alcohol and 50 per cent. water freeze at about 35 decrease at 35 decrease a freezes at about 35 degrees below zero. Anticipating possible disturbances owing be used with equally as good results as stocks, than usual conditions to the pure grain alcohol and le check the pure grain alcohol and le check than usual conditions. stocks than usual and have had mo rubber in our factory at Akron duri the embargo than we ever had before.

Ohio chauffeurs now must meet harder ests in applying for licenses. The State industrial Commission has its district examiners make the applicant for a chauffeur's license go through a lot of new paces. It has not yet been decided whether the chauffeurs now holding light energy will have to stand the new examiners will have to stand the new examiners make the applicant for a chauffeur's license go through a lot of new paces. It has not yet been decided whether the chauffeurs now holding light energy will have to stand the new examiners will have to stand the new examiners are represented by the powerful storage battery. At speed the generator furnishes a spark as perfectly timed as the magnetic fear, is now manager of the Maxwell department of the Studebaker, is now manager of the Maxwell with the title of contest the embargo our rubber has been coming direct from the powerful storage battery. At speed the generator furnishes a spark as perfectly timed as the magnetic fear, is now manager of the Maxwell with the title of contest the advertising department of the Studebaker, is now manager of the Maxwell with the title of contest than last November, and duction for December was 33 per cent. It has not yet been decided thousands of Studebaker cars in the hands of owners, there has not been a single for the Vanderbilt Cup and Grand Prize for the Authority of the A

of crude plantation rubber in storage there which we are making arrangements to have shipped to us at once and which will arrive long before our present supply in Akron is exhausted.

Net, this means that while the embargo held potential dangers for crude rubber consumers and later for our manufacturers and users, those dangers have been avoided. It is not likely that there will now be any advance in the prices, and crude rubber prices, and prices, and crude rubber prices are dropping gradually back in the direction of their level at the beginning of the war. The price of crude had almost doubled during the two months the embarso was on. Goods ear has been watching the situation obesity and the below attentions. ing the situation closely, and the bring-ing of stocks to Canada means that this will be the first company to receive material as a result of the lifting

Cornell and Lehigh Enter Meet.

Washington, Jan. 23.—According to the local management. Lehigh and Cor-nell may enter the George Washington meet. Princeton will not, as the George-town games come only two weeks after the George Washington meet and Prince-ton plans to send a large gamed to 13. objecting to the fact that spiked shoes are forbidden at Convention Hall. Prof.
McNemar is trying his best to persuade the Pennsylvanians to come down any-back here soon now that negotiations with

WORM DRIVE PACKARD TRUCKS. Entirely New Line of Vehicles An-

nonneed by Detroit Builders. An entirely new line of motor trucks is announced by the Packard Motor Car Company of Detroit. The series, ranging in capacity from one to six tons, inclusive, possesses numerous features, among others the installation of worm drive. The 1-ton Packard is a new addition to this family and marks the entrance of

the company into the light duty field. Each unit is designed especially for the duties required of a truck of that capacity. It has taken three years for the forework. The preliminary trucks, in the final test, were driven a distance equivalent to five times around the earth. This mileage was established over the roughest road conditions to be encountered between Michigan and the Rocky Mountains.

The design which has been evolved in The design which has been evolved in the new models it is expected will remain substantially unchanged for several years. The builders express the confidence of having achieved a truck design to render the maximum service with the minimum cost of upkeep and with minimum atten-tion and effort on the part of both the

owner and his employees.

Owner and his employees.

One point in design of the new Packards is their centralized control. The latter feature is entirely new in heavy duty trucks and means complete mastery of the vehicle from the driver's seat. The new models have left drive and left side levers.

The Packard motor is automatically governed to prevent overspeeding by reck-less drivers and the resultant abuse of the vehicle. The carbureter is automati-

and the ignition system is so protected as to be practically waterproof

These machines have provision for electrical cranking and lighting apparatus. also a power takeoff for operating inde-pendent mechanism.

Despite large orders from Europe the Packard truck shops are prepared early deliveries of the new models.

NOTES OF THE MOTOR WORLD

At the next meeting of the Electric Vehicle Association of America on January 28, Edward Callan, a department store proprie-tor, will be the first speaker of a number in series who are to talk on "Electric Ve-hicles in Department Store Service." from the standpoint of the user. The months to which the public is invited, will be held in the Consolidated Gas Company Building at 130 East Fifteenth street.

The Goodyear Tire and Rubber Company reports that a trainload of 500 tons ton plans to send a large squad to the of crude rubber arrived yesterday at its Hillitoppers' annual athletic carnival. The University of Pennsulvania gives a novel reason for not entering men on February 13, objecting to the fact that spiked shoes since the embargo was raised.

way, but has met with no success thus the British Government have been com

CHANDLER CAR PRICE IS REDUCED TO \$1,295

A most interesting modern development in motor car making is the Owen Magnetic car, which

prejudice against American goods is fast disappearing in spite of the organized efforts of the European manufacturers to discredit the quality of the American roduct and keep it out of their markets. The buying public in Europe is fast beoming convinced—through their own exerience and observations—that our cars Move Made by Cleveland Concern of Interest to Motorare not only from 25 per cent. to 50 per cent. cheaper than European makes, but in many details of design, construction ists Generally.

stand up better in hard service "Studebaker has enjoyed a very satisstudeshare has enjoyed a very satisfactory business on the Continent during the past two and a half years. During the first seven months of 1914 our sales were greater than those for all of 1913, and had it not been for the war the total for the Chandler Motor Car Company of 1914 business would have more than doubted 1913.

"While I was in Germany I saw Studebaker cars used by the German Red Cross.
There is an interesting story connected possible. Bosch magneto, Gray & Davis There is an interesting story connected possible. Bosch magneto, Gray & Davis with this, which demonstrates the superior quality of American made cars. Just after war was declared, the German Government took over sixty cars plugs. Mayo radiator of the Mercedes type, from the Bosch Studies distributor. from the Berlin Studebaker distributor. cast aluminum motor base. Rayfield car-linmediately the German motor car man-bureter, worm level rear axie, imported afacturers united in a petition to the annular ball bearings throughout, olling Government to pass a rule prohibiting the system completely contained within mopurchasing of any but German made tor, hand buffed real leather upholetery, motor cars for war purposes. In the meantime, these sixty cars went into hard lene tank in rear, demountable rims, elecservice at the front, and as more cars the front, and as more cars to the fact that the first state of the fed Studebaker cars in their recupisitions.

In making public the new price of the

fied Studebaker cars in their requisitions.

In making public the new price of the Chandler Six, officers of the company anspecifications, but the demand became so nounce that it will be carried throughout insistent that the Government took over the coming season without change. Orders the entire Studebaker stock of 200 cars. If the coming season without change Orders for cars now on the books of the company for 1915 delivery had already promised a

dly, and in the people themselves—assisted by their Governments—to recoup their fortunes and bring about a long beriod of steady in strial prosperity. That American made motor cars and therican made machinery of all kinds will play an important part in this restablishment cannot be doubted by any newho has visited Europe and who anderstands conditions. American made machinery of all kinds ago the six cylinder car was almost exclusively confined to the high priced field and was considered something of a fad. Convinced through their eight years experience in the construction and sale of sixes that a lightweight car of this type. selling at a moderate price would find a ready market, the present officers of the Chandler Company brought out the Chan-The International Motor Company has line of one and two ton Mack worm two trucks in which the simplicity of the car made good to such an extent that the following season brought a reach the motor through the crank case unrestricted, so that in case of difficulty is the road the connecting rod and piston the road the connecting rod and piston the road the connecting rod and piston to \$1.595. To-day the company is one of the three largest six cylinder makers in the business.

Harvard Nine to Visit Shore Resort.

or complete, the crank case put back | Cambridge, Mass., Jan. 23 .-- A change The place, and the truck run home, on two or three cylinders.

Several years of research and experimental work were carried on before the design was finally adopted. A truck has been produced which, it is claimed, will cost less to operate and maintain than any other truck of the same size on the market.

CAMBRIDGE, Mass., Jan. 23.—A change in place in the manual southern trip of the Harvard baseball team, by which the team will go to Atlantic City for three days after the game with set Point, was announced by Manager Cunningham to day. It has been customary to go direct either to Baltimore or Washington. The team probably will play a local nine during its stay at Atlantic City.

cylinders, although arranged in two blocks of four cylinders at 90 degrees to each of four cylinders at 90 degrees to each other, are 4n unit with the crank case. Each block has integral with it a longitudinally split half of the crank case.

Another difference from the construction now employed by the majority of eights is that the valves are operated direct from the cam shaft with no intervening rockers or shafts. The hardened are ground tappets are fitted with steel in the statement of any ground tappets are fitted with steel is not constructed by the majority of the magneto as a source of any ground tappets are fitted with steel is not constructed.

cylinder heads are detachable and the Grand Prize event.

for the First Time at

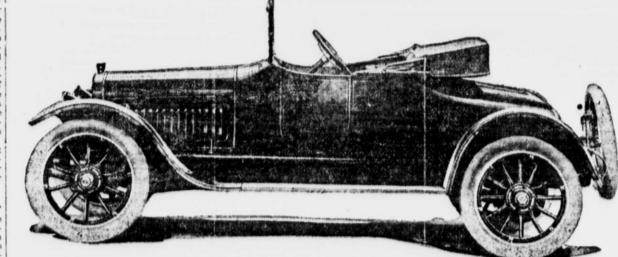
Chicago.

case may be, takes care of its regular function for two opposite cylinders instead of one directly overhead.

vening rockers or shafts. The hardened and ground tappets are fitted with steel ignition, to judge from the statement or ignition in the statement or ignition in the statement or ignition in the statement of the statement or ignition in the statement of the statement or ignition in the statement or ignition in the statement or ignition in the statement of the statement or ignition in the statement of the statement or ignition in the statement of the statement These bear directly against the cams.

The cam shaft and crank shaft and the method of connecting the rods to the latter through yoke ends and smaller ends fitted within the yoke arms are features of the design which do not differ from general practice. The cam shaft is the same in form as that used in a four the same in the A reduction in price to \$1,235 is announced by the makers of the Chandler
Six, which is handled locally by the Brady
Motors Corporation of 1830 the same in form as that used in a four
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the same in form as that used in a four
and complexity and used up a very con-

Chandler Light Six Comes Out at New Price.



This is the runabout model of the new Chandler, which is offered to the buying public for the new season at a markedly reduced price.